

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	502	706/12 and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:40
L2	16	1 and test and graph and node and justified	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:23
L3	357	706/14 and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:23
L4	0	3 and test and graph and node and justified	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:24
L5	654	706/46 and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:30
L6	3	5 and test and graph and node and justified	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:31
L7	656	706/46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:30
L8	654	7 and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:32
L9	3	8 and test and graph and node and justified	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:32
L10	7	8 and test and graph and node and case-based and learning	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:32

L11	7	10 and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:32
L12	654	706/46 and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:50
L13	0	computer and word and level and network and node and justified and non-controlling and case-based and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:49
L14	1	computer and word and level and network and node and justified and case-based and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 10:49
L15	119	computer and word and level and network and node and case-based and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 10:49
L16	119	15 and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 10:50

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	661	714/26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 12:21
L2	660	714/26 and @ad<"20030816"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/22 12:21
L3	7	2 and computer and node and justified	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 12:22

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership | Publications/Services | Standards | Conferences | Careers/Jobs

IEEE Xplore®
 RELEASE 1.8

 Welcome
 United States Patent and Trademark Office

[Help](#) | [FAQ](#) | [Terms](#) | [IEEE Peer Review](#)
[Quick Links](#)

» Search Results

Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced
- ☐ CrossRef

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

IEEE Enterprise

- ☐ Access the IEEE Enterprise File Cabinet

Your search matched **0** of **1140634** documents.
 A maximum of **500** results are displayed, **50** to a page, sorted by **Relevance** in **Descending** order.

Refine This Search:

You may refine your search by editing the current search expression or entering a new one in the text box.

☐ Check to search within this result set

Results Key:

JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

Results:

No documents matched your query.

Print Format

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [O Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to](#)

Copyright © 2004 IEEE — All rights reserved



**2002 International Conference on
Machine Learning and Cybernetics**



Proceedings Volume 2 of 4

**November 4-5, 2002
Prime Hotel
Beijing, CHINA**

**IEEE Catalog Number: 02EX583
ISBN: 0-7803-7508-4
Library of Congress: 2002104691**

**Sponsored by Hebei University and the IEEE Systems,
Man and Cybernetics Technical Committee on Cybernetics**

2002 International Conference on Machine Learning and Cybernetics

Copyright © 2002 by the Institute of Electrical and Electronics Engineers, Inc.

All rights reserved.

Copyright and Reprint Permission:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law, for private use of patrons, those article in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. For other copying, Reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. All rights reserved. Copyright ©2002 by the Institute of Electrical and Electronics Engineers, Inc.

IEEE Catalog Number: 02EX583

ISBN: 0-7803-7508-4

Library of Congress: 2002104691

Contents

Greetings

Greetings from the Conference Co-Chairs.....	I
Greetings from the Programme Co-Chairs	II

Keynote Speech

Learning with Kernels

Bernhard Schölkopf	V
Msmminer: a Platform for Data Mining	
Zhong-Zhi Shi	VI
Soft Computing for Sensor and Algorithm Fusion	
James M. Keller	VII
From Data Mining and Neural Networks Modeling towards Rule Extraction	
Jacek M. Zurada	X

Contributed Papers (Sorted by Accepting Date)

Probability Limit Property for Energy Function To feed-Forward Neural Networks with Noise	
Cong Jin	1
Modelling the Multi-Agent System	
Xi Cheng and Yi-Bin Hou	4
Comprehensive Information Fusion Methodology for Telecommunication Network Management	
Yun-Lan Wang , Zeng-Zhi-Li , Jun Xue , Shi-Min Ban and Yin-Liang Zhao	8
Using Data Mining to Discover Signatures in Network-Based Intrusion Detection	
Hong Han , Xian-Liang Lu and Li-Yong Ren	13
Choosing of Battle Position Through Training Support Vector Machines	
Kan Li and Yu-Shu Liu	18
A Combination of Traditional Time Series Forecasting Models with Fuzzy Learning Neural Networks	
Chang-Yang Wen and Min Yao	21
Braking Methods for Direct Torque Control of Induction Motor	
Feng Pan , Yi Wang and Ru-Cheng Han	24
Image Representation with Level Difference Set and Its Application	
Bing Cheng , Nan-Ning Zheng , Yuan-Li Zhang and Jian-Ru Xue	28
Fuzzy Logical Space	
Chang Su	32
A New Adaptive RBF Network Structure Learning Algorithm	
Jian Sun , Rui-Min Shen and Fan Yang	35
CWCNFS: a Cluster NFS Server with Cooperative Write Mechanism	
Jun Lu , Guang-Chun Luo and Xian-Liang Lu	41
Observer Design for a Class of Fuzzy Systems	
Ke-Mao Ma	46
S-Rough Sets and its Applications in Diagnosis-Rognition for Disease	
Kai-Quan Shi	50
FM: a Fast Map Algorithm for Data Clustering	
Li Wang and Zheng-Ou Wang	55
Rough Set Based Attribute Reduction Approach in Data Mining	
Kan Li and Yu-Shu Liu	60
BP Neural Network Optimization Based on an Improved Genetic Algorithm	
Bo Yang , Xiao-Hong Su and Ya-Dong Wang	64
A New Kind of Shadow Detector Based on CNN-UBN	
Hai-Ming Wang , Jian-Ye Zhao , Shi-De Guo and Dao-Heng Yu	69

Artificial Immune Theory Based Network Intrusion Detection System and the Algorithms Design	
Xiang-Rong Yang, Jun-Yi Shen and Rui Wang	73
Research on Solution to Complex Container Loading Problem Based on Genetic Algorithm	
D.Y.He and J.Z.Cha	78
RIDAS—a Rough Set Based Intelligent Data Analysis System	
Guo-Yin Wang, Zheng Zheng and Yi Zhang	83
Research of Real Time Robot Visual Servoing Based on Genetic Algorithm	
Han Liu, Ding Liu and Yan-Xi Yang	87
An Improved Adaptive Neural Network and Its Application on Random Shape	
Can-Lin Mo and Jian-Rong Tan	91
A Novel Clustering Algorithm Based on Weighted Support and Its Application	
Xiang-Rong Yang, Jun-Yi Shen and Qiang Liu	95
Feedback Procedure Neural Network and Its Training	
Jiu-Zhen Liang and Ming-Sheng Zhao	101
Fuzzy Case-Based Reasoning: Weather Prediction	
Kan Li and Yu-Shu Liu	107
Research and Implementation of a Scalable Secure Active Network Node	
Jian-Guo Wang, Zeng-Zhi Li and Ya-Nan Kou	111
Matrix Computation for Data Cleaning and Rule Extraction in Knowledge System	
Tian-Le Tan, Zhi-Huan Song and Ping Li	116
Recognition Using Extended Multiple Discriminant Analysis (EMDA) Method	
Wen-Ming Zheng, Li Zhao, Cai-Rong Zou, Zhi-Fu Wang and Xian-Wei Yu	121
A Study of Dynamic Knowledge Representation Based on Neural Networks	
Hao Pan, Luo Zhong and Jing-Ling Yuan	126
Robot Path Planning in Complex Environment Based on Delayed-Optimization Reinforcement Learning	
Xiao-Dong Zhuang, Qing-Chun Meng, Bo Yin and Han-Ping Wang	129
The Research on Model of Mining Association Rules Based on Quantitative Extended Concept Lattice	
De-Xing Wang, Xue-Gang Hu and Hao Wang	134
Order-Based Genetic Algorithm for Flow Shop Scheduling	
Liang Zhang, Ling Wang and Fang Tang	139
Fuzzy Logic Control for Switched Reluctance Motor Drive	
Hao Chen, Dong Zhang, Zi-Yue Cong and Zhi-Feng Zhang	145
Mining Web Log Data Based on Key Path	
Ai-Bo Song, Zuo-Peng Liang, Mao-Xian Zhao and Yi-Sheng Dong	150
Use of Immune Self-Adaptation Wavelet for Data Mining	
Jian-Guo Zheng and Ping-Ping Song	156
A New PLS Approach with Hybrid Internal Models	
Min-Jie Huang, Hao Ye and Gui-Zeng Wang	161
Nonlinear Control of Robot Spatial Motion in Dynamic Environments	
I.V.Miroshnik and Xian-Lin Huang	165
Mining Cross-Table Association Rules Based on Projections of Itemsets	
Nai-Qian Li, Qin-Bao Song and Jun-Yi Shen	170
A New Approach for Automated Image Segmentation Based on Unit-Linking PCNN	
Xiao-Dong Gu, Shi-De Guo and Dao-Heng Yu	175
Analyzing Document Logic Structure By Machine Learning	
Gong-Shen Liu, Yong-Cheng Wang and Pei-Hua Hu	179
Application of Som Neural Network in Fault Diagnosis of the Steam Turbine Regenerative System	
Jun-Fen Wu, Nian-Su Hu, Sheng Hu and Yu Zhao	184
A Comparison of Neural Networks and Model-Based Methods Applied for Fault Diagnosis of Electro-Hydraulic Control Systems	
Hong Yue, Shi-Jie Dai, Zhan-Qun Shi and Ji-Zhong Wang	188
Research of Coalition Formation in Time-Bounded Multiagent Systems	
Yong Gong, Li Yao, Wei-Ming Zhang, Ji-Chang Sha and Chang-Ying Wang	194
The Minimum Mean Square Error Linear Estimator and Ridge Regression	
Zhi-Fu Wang, Xian-Wei Yu	199
Dynamic Node Creation and Fast Learning Algorithm for a Hybrid Feedforward Neural Network	
Hong-Fei Xia and Lian-Kui Dai	202
Separation and Reconstruction of Specular and Diffuse Reflection Images	
Zhan-Wei Li and Ji-Zhou Sun	206
Chaos in PWM Controller of a CUK Converter	
Jia Yi and Xue-Ye Wei	210
Information Extraction for Chinese Free Text Based on Pattern Match Combine with Heuristic Information	
Ying Yu, Xiao-Long Wang and Yi Guan	214

Cooperative Path Planning for Multiple Air Vehicles Using a Coevolutionary Algorithm	
Chang-Wen Zheng , Ming-Yue Ding and Cheng-Ping Zhou	219
Stereo Camera System and Its Application in Networked Virtual Environment	
Ling Chen , Mei-Hong Tian , Gen-Cai Chen and Chuen Chen	225
A Practicable Control System with Hierarchical Structure	
Zhong-Hua Sun , Fu Ping and He-Xin Chen	230
Quantifying Semantic Similarity of Chinese Words from Hownet	
Yi Guan , Xiao-Long Wang , Xiang-Yong Kong and Jian Zhao	234
A Local-To-Holistic Face Recognition Approach Using Elastic Graph Matching	
Da-Rui Sun and Le-Nan Wu	240
An Entropy-Based Discretization Method for Classification Rules with Inconsistency Checking	
Ren-Pu Li and Zheng-Ou Wang	243
Sliding Mode Control of an Autonomous Underwater Vehicle	
Li-Rong Wang , Jian-Chen Liu , Hua-Nan Yu and Yu-Ru Xu	247
Combining Multiple Classifiers Based on Statistical Method for Handwritten Chinese Character Recognition	
Lei Lin , Xiao-Long Wang and Bing-Quan Liu	252
Research of Discovery Feature Sub-Space Model (DFSSM) Based on Complex Type Data	
Bing-Ru Yang and Jing Tang	256
A Novel Cluster Method in Fuzzy Neural Networks	
De-Qiang Li , Sha-Bai Huang , De-Qiang Li and Sha-Bai Huang	261
The Computational Complexity of Dynamic Programming Algorithm for Combinatorial Auctions	
Shan-Li Hu and Chun-Yi Shi	266
Multi-Model Adaptive Control for the Superheated Steam Temperature	
Wen-Jie Zhao , Yug-Uang Niu and Ji-Zhen Liu	269
Rough Sets Model Based on Partition	
Shu-Hong Yi	273
A Niching Negative Selective Genetic Algorithm for Self-Nonself Discrimination in a Computer	
Ya-Jing Zhang , Chao-Zhen Hou , Fang Wang and Li-Min Su	276
A Fuzzy Comprehensive Evaluation Based Distributed Intrusion Detection	
Ming-Guang Ouyang , Wei-Nong Wang and Yun-Tao Zhang	281
A New Adaptive Weighted Fusion Algorithm for Multi-Sensor Tracking	
Jiang Zhao and Shi-Qiang Hu	285
An Object Tracking Algorithm based on Occlusion Mesh Model	
Jian-Wei Zhao , Peng Wang and Chong-Qing Liu	288
Novel Fuzzy Predictive PID Control for a Class of Nonlinear Systems	
Lin-Huan Li , Hong-Ye Su , Jian Chu and Xin-Pin Guan	293
Traditional Chinese Medicine Recognition Based on Fnn	
Yi-bo Li and Xiao-yuan Huang	298
Optimizing Index for Semistructured Data	
Li-Xin Han , Xia-Qin Zheng and Xiao-Fang Li	303
Probing Modification of BP Neural Network Learning-Rate	
Pan Hao , Jing-Ling Yuan and Luo Zhong	307
A Fuzzy Parameter S Adaptive PID Controller Design of Digital Positional Servo System	
Yu Yang , Wen-Ge Wang , De-Jie Yu and Ge Ding	310
Stock Market Time Series Data Mining Based on Regularized Neural Network and Rough Set	
Xiao-Ye Wang and Zheng-Ou Wang	315
Predictive Control Based on Neural Network for Nonlinear System with Time-Delay	
Xue-Mei Sun , Chang-Ming Ren , Pi-Lian He and Yu-Hong Fan	319
The H_∞ Control of 10mwh Class Energy Storage Flywheel System Using Superconducting Magnetic Bearing without Gyroscopic Effect	
Ya-Chong Zhang , Ya-Jun Zhang and Guo-Ji Sun	323
Communication Performance Optimization for Mobile Agent System	
Bo Yang , Da-You Liu and Kun Yang	327
Adaptive Synchronization of Discrete Chaotic Systems	
Zhi-Liang Wang and Hua-Guang Zhang	336
Data Distributions Automatic Identification Based on Som and Support Vector Machines	
Jia-Yuan Zhu , Heng-Xi Zhang , Ji-Lian Guo and Jing-Lei Feng	340
Intelligent Q&A System Based on Case Based Reasoning	
Peng Han , Rui-Min Shen and Fan Yang	345
A Semantic-Based Image Retrieval System: Visengine	
Jian-Yong Sun , Zheng-Xing Sun , Ruo-Hong Zhou and Hui-Feng Wang	349
An Application of Fuzzy-Inference -Based Neural Network in Dtc System of Induction Motor	
Cheng-Zhi Cao and Hai-Ping Li	354

Hybrid Knowledge Representation in Compositional Modeling	
Dong-Feng Wang , Sheng-Bo Wang and Ying-Wu Chen	360
Time Series Prediction Via New Support Vector Machines	
Jia-Yuan Zhu , Bo Ren , Heng-Xi Zhang and Zhen-Ting Deng	364
The Effect of the Fractional-Order Controller'S Orders Variation on the Fractional-Order Control Systems	
Qing-Shan Zeng , Guang-Yi Cao and Xin-Jian Zhu	367
Multituser Detection Method Based on Support Vector Machine	
Tao Yang and Jian-Ying Xie	373
Mas-Based Model of Intelligent Control-Maintenance Management System (ICMMS) and Its Application	
Chuang Fu , Lu-Qing Ye , Yuan-Chu Cheng , Yong-Qian Liu and Benoi lung	376
HMMs (Hidden Markov Models) Based on Anomaly Intrusion Detection Method	
Bo Gao , Hui-Ye Ma and Yu-Hang Yang	381
Research on Web Mining-Based Intelligent Search Engine	
Yan Li , Xin-Zhong Chen and Bing-Ru Yang	386
Anthropomorphic Intelligent PID Control and Its Application in the Hydro Turbine Governor	
Yuan-Chu Cheng , Lu-Qing Ye , Fu Chuang and Wei-You Cai	391
Statistics-Based Fuzzy Operator of the Compound Fuzzy Proposition	
Yi-Jiang Chen.....	396
New Control Algorithm of Loss-DOF Serial Manipulators Near Singular Configurations	
Zhun-Qing Hu , Zhi-Guo Fu and Hai-Rong Fang	401
Study of Singularity Robust Inverse of Jacobian Matrix for Manipulator	
Zhun-Qing Hu , Zhi-Guo Fu and Hai-Rong Fang	406
Fuzzy Vibration Fault Diagnosis System of Steam Turbo-Generator Rotor	
Dan-Mei Xie , Xiao Song , Hai-Long Zhou and Ming-Wan Guo	411
The Mill Load Control for Grinding Plant Based on Fuzzy Logic	
Yao-Geng Tang and Gao Song	416
Knowledge Aggregation and Navigation High-Level Petri Nets-Based in E-Learning	
Xiao-Qiang Liu , Min Wu and Jia-Xun Chen	420
The Lattices of Normal Intuitionistic Fuzzy Subgroups	
Tao Wang and Yan-Ping Wang	426
Recognition of Water Surface in Scene Images	
Meng-You Yuan , Hua-Yong Zhu and Lin-Cheng Shen	430
A Stochastic Strategy for Solving Job Shop Scheduling Problem	
Ai-Hua Yin and Wen-Qi Huang	434
Expert System for Earth-Rock Allocation Management Based on Knowledge Engineering	
Sheng-Rong Cao and Xian-Jia Wang	440
Exponential Stability for Delayed Cellular Neural Networks	
Xiao-Ping Li and Li-Cheng Jiao	446
An Efficient Iris Recognition System	
Ya-Ping Huang , Si-Wei Luo and En-Yi Chen	450
Research on an Improved Genetic Algorithm Based Knowledge Acquisition	
Li-Min Su , Hong Zhang , Chao-Zhen Hou and Xiu-Qin Pan	455
Mining Frequent Itemsets with Tough Constraints	
Lei Jia , Ren-Qing Pei and Song-Qian Zhang	459
Improved Self-Adaptive Smith Predictive Control Scheme for Time-Delay System	
Dong-Mei Feng , Feng Pan and Ru-Cheng Han	463
Model Information Metric Based on Selection Criterion	
Xiao-Jun Duan , Xiao-Yong Du and Zheng-Ming Wang	467
Theoretical Study on Diversity of Population in Parallel Genetic Algorithms	
Mei-Qin Pan and Guo-Ping He.....	472
A UML Extension of Distributed System	
Ying Dong , Mingshu Li and Qing Wang	476
Corba/Java Technology Based Legacy Systems Reusability Research and Design	
Hai-Yun Fang , Jian-Chao Zeng and Yin-Zhang Guo.....	481
Time-Variable-Parametric Relaxation Labeling and Its Application in Texture Segmentation	
Yun-Tao Qian , Qi Wang and Ching Y. Suen	486
Intelligent Resource Planning of Testing Lab Based on Corba and Multi-Agent	
Yi-Min Huang , Jian-Ming Zhang , Quan-Lin Zhang and Shu-Qing Wang	492
Cache Prefetching Adaptive Policy Based on Access Pattern	
Ke Zhou , Jiang-Ling Zhang , Dan Feng and Zhi-Kun Wan	496
A New Neural Network Approach to Economic Emissionload Dispatch	
Xian Wang , Yu-Zeng Li and Shao-Hua Zhang	501

Clonal Operator and Antibody Clone Algorithms	
Hai-Feng Du , Li-Cheng Jiao and Sun-An Wang	506
A Composite Controller Based on Fuzzy Rules and Neural Networks for Soccer Robot System	
Chang-Hai Xu , Hua-Ming Li and Xin-He Xu	511
An Effective Projection-Reduction Algorithm for Mining Long Frequents	
Xiao-Feng Wang , Tian-Ran Wang and Yue Zhao	515
The Identification of Industrial Processes Based on SVM	
Li-Na Li and Chao-Zhen Hou	520
An Intrusion Detection Systembased on Data Mining and Immune Principles	
Jun-Zhong Zhao and Hou-Kuan Huang	524
A Neural Network Case-Based Reasoning and Its Application	
Zhi-Wei Ni , Yi-Juan Lu , Long-Shu Li and Rui-Yu Jia	529
Finding Terminology Translations From Hyperlinks on the Internet	
Shuang-Qing Yuan , Fang Li and Huan-Ye Sheng	533
Study of Data Mining Based Machinery Fault Diagnosis	
Dong Jiang , Shi-Tao Huang , Wen-Ping Lei and Jin-Yan Shi	536
A Dynamic Multicast Grouping Approach in Distrubuted Interactive Simulation	
Zhong-Jian Dai , Chao-Zhen Hou and Li-Min Su	540
PI-Tuning Methods Based on GA	
Pei-Jin Wang	544
Evolving Support Vector Machine Parameters	
ANH Tran Quang , Qian-Li Zhang and Xing Li	548
A Kind of Ant Colony Algorithm for Function Optimization	
Wei-Qing Xiong and Ping Wei	552
A Sparse-Feature-Based Face Detector	
Xiao-Feng Lu , Nan-Ning Zheng and Song-Feng Zheng	556
Study on Evolutionary Self-Adaptation Model-Building	
Xiao-Ou Li and Huan-Qing Feng	561
R&D of the Ladle Furnace'S Mathematic Model	
Wu-Shan Cheng , Shu-Guang Tang , Qi-Zhong Liu and Min-Rui Fei	566
Personal Agent for Hig Hlghting Interesting Words	
Xiao Peng , Zheng Chen , Shao-Ping Ma , Wen-Yin Liu and Wei-Ying Ma	572
Design and Implementation of Educational Platform in Robocup Simulation Games	
Wei Ning , Yan-Nan Zhao , Ze-Hong Yang , Yun-Peng Cai , Rui Ma and Jia-Xin Wang	578
Monitoring Faults Self-Consciously in the Real Time Dual Working System Based on High Performance Network	
Tao Wu , Dan Feng And Jiang-Ling Zhang	582
Knowledge-Increasable Learning Behaviors Research of Neural Field	
Si-Wei Luo , Jin-Wei Wen and Hua Huang	586
Identfication of Digital Elevation Annotation in Scanned Map	
Rui Chen , Hua Li , Jian-Qing Zhang and Zu-Xun Zhang	591
An Operable and Systemlc Approach to Designing Organizations	
Dong-Sheng Yang , Zhong Liu , Wei-Ming Zhang and Wen-Wei Chen	596
Chinese POS Tagging Based on Maximum Entropy Model	
Jian Zhao and Xiao-Long Wang	601
The Intelligent Strategy of Migrating Data Based on the Network-Attached Disk Array Storage System	
Tao Wu , Dan Feng and Jiang-Ling Zhang	606
The Approach of Extracting Features From the Local Environment for Mobile Robot	
Wei Hong Yan-Tao Tian and Zai-Li Dong	611
Constructing Decision Tree With Continuous Attributes for Binary Classification	
Yan-Huang Jiang , Hai-Fang Zhou and Xue-Jun Yang	617
Enlnforcement Learning Based on Human-Computer Interaction	
Fang Liu and Jian-Bo Su	623
A Glass Bottle Defect Detection System without Touching	
Hui-Min Ma , Guang-Da Su , Jun-Yan Wang and Zheng Ni	628
Previewing Control System of Automatic Height Adjustment for Drum-Type Coal Excavator	
Based on Memory Cutting with Identification of Object Model by Genetic Algorithm	
Mu-Qin Tian and Shi-Bo Xiong	633
Dynamic Properties of Elman and Modified Elman Neural Network	
Yuan-Chu Cheng , Wei-Min Qi and Wei-You Cai	637
Mathematical-Expressions-Based Knowledge Discovery Method and Its Application in Verification of Incompatibility of Water and Fire	
Xing-Ming Sun , Huo-Wang Chen , Jian-Ping Yin and Xin-Hai Jing	641

RIDAS—a Rough Set Based Intelligent Data Analysis System	
Guo-Yin Wang, Zheng Zheng and Yi Zhang	646
Multi-Agent Learning Methods in an Uncertain Environment	
Shu-Hua Liu and Yan-Tao Tian	650
The Simulation of Failure Parameter in a Real Time Monitoring and Analyzing System Based on RBFN	
Nian-Su Hu, Yu Zhao and Jun-Fen Wu	655
A PD-Type Open-Closed-Loop Iterative Learning Control and Its Convergence for Discrete Systems	
Shao-Juan Yu, Ju-Hua Wu and Xue-Wen Yan	659
Hierarchical Web Image Classification by Multi-Level Features	
Shou-Bin Dong and Yi-Ming Yang	663
Spoken Dialogue Management as Planning and Acting Under Uncertainty	
Xin-Zhong Zhu and Jian-Min Zhao	669
The Application of Intelligent Integral Realized by Fuzzylogic for Hydroturbine Governing System	
Guang-Da Chen, Wei-You Cai, Han-Ke Xu and Mian-Hua Huang	674
Selective MCE Training Strategy in Mandarin Speech Recognition	
Jian-Min Zhao, Xin-Zhong Zhu and Hui-Ying Xu	679
An Artificial Life and Genetic Algorithm Based on Optimization Approach with New Selecting Methods	
Chen Yang, Hao Ye, Jing-Chun Wang and Ling Wang	684
The Study on Technologies for Feature Selection	
Jun Zhao, Guo-Yin Wang, Zhong-Fu Wu, Hong Tang and Hua Li	689
A New Algorithm for Nonlinear Mathematical Programming Based on Fuzzy Inference	
Tao Wang and Yan-Ping Wang	694
An Optimal Design of Fuzzy Controller for Highpower Oil Transfer System	
Jun Liu, Ding Liu, Guang-Hui Zhang and Pu-Sheng Wu	699
Mining Association Rule Oriented Data Cube and Its Application	
Hong Shi, Ji-Fu Zhang and Lian Zheng	705
Ant System Algorithm Based Rosenbrock Function Optimization in Multi-Dimension Space	
Lei Wang, Xiao-Ping Wang and Qi-Di Wu	710
Neural Network Learning of the Multi-Target Fuzzy Decision Process	
Lei Wang, Xiao-Ping Wang and Qi-Di Wu	715
Construction and Application of Bayesian Networks an Flood Decision Supporting System	
Shao-Zhong Zhang, Nan-Hai Yang and Xiu-Kun Wang	718
A SRG-Based Online Composite Graphic Recognition Strategy for Sketch-Based User Interface	
Xiao-Gang Xu, Zheng-Xing Sun, Bin-Bin Peng and Xiang-Yu Jin	723
Meta-Information in Rough Set Theory	
Jian Su and Ji Gao	729
Tuning of Neuro-Fuzzy Controller by Real-Coded Genetic Algorithm with Application to an Autonomous Underwater Vehicle Control System	
Hua-Nan Yu, Jia-Min Zhao and Yu-Ru Xu	735
Robot Self-Learning Visual Servoing Algorithm Using Neural Networks	
Yan-Xi Yang, Ding Liu and Han Liu	739
A Study on Spatial Attribute Data Mining Based on Rough Set	
Long-Shu Li, Bin Tang, Zhi-Wei Ni and Tao Yang	743
A HGA Based on The Analysis of Best Value Region and Application to The Fuzzy Controller	
Kang-Ling Fang, Hai-Chang Gu and Wei-Hua Huang	747
Networked Control System Design and Implementation	
Jian-Ming Zhang and Shu-Qing Wang	750
A Learning Strategy in CBIR System Design	
Sheng-Rong Gong, Zhao-Hui Wang and Jian-Min Zhao	754
Stability Analysis of Networked Control System	
Lei Xie, Jian-Ming Zhang and Shu-Qing Wang	757
Learning Algorithm for Neural Network with Alternating Process	
Wei-Guo Liu, Lin Yong and Yong-Xuan Huang	760
Checking on The Quality of Gauge Panel Based on Wavelet Analysis	
Shu-Guang Liu, Ming-Yuan Liu and Yue He	763
Regulated Morphological Operations with Weighted Structuring Element	
Xu-Hong Tian, Qing-Hua Li and Shang-Wei Yan	768
Unsteady Fault Diagnosis Method for Chemical Process Based on SVM	
Shui Yu, Fan-Yuan Ma, Jian-Xue Chen, Xing-Guo Yin and Hong-Bo Shi	772
Comparative Study of Control Methods of Single-Rotational Inverted Pendulum	
Ke Xu and Xu-Dong Duan	776
Social Cognitive Optimization for Nonlinear Programming Problems	
Xiao-Feng Xie, Wen-Jun Zhang and Zhi-Lian Yang	779

A Modified Neuron Model-Free Controller with PID Turning Gain for Hydroelectric Generating Units Jian-Ming Zhang and Shu-Qing Wang	784
Intelligent System of Cable Fault location and its Data Fusion Mei Wang , Yuan -Bin Hou and Jian-Ping Wang	788
Web Documents Mining Qin-Bao Song , Nai-Qian Li , Jun-Yi Shen and Li-Ming Chen	791
Anti-Control of Chaos Based on Fuzzy Neural Networks Inverse System Method Hai-Peng Ren and Ding Liu	796
Form Recognition for Johann Strauss'S Waltz Centos Based on Music Features Dan Liu , Nai-Yao Zhang and Han-Cheng Zhu	800
Research of Automatic Chinese Word Segmentation Kai-Ying Liu Jia-Heng Zheng	805
Adaptive Fuzzy Control Scheduling of Hybrid Real-Time Systems Xiao-Yong Huai , Yong Zou and Ming-Shu Li	810
A New RBF Neural Network Control Strategy based on New Object Function Ya-Min Wan , Sun-an Wang and Hai-Feng Du	816
A Generalized Image Enhancement Algorithm Using Fuzzy Sets and its Application Dong-Liang Peng and Tie-Jun Wu	820
A Hybrid Dialogue Management Approach for a Flight Spoken Dialogue System Xiao-Jun Wu , Fang Zheng and Wen-Hu Wu	824
KWA: an Improved Question Matching Algorithm Based on Keywords' Weight Analysis Tong-Zhen Zhang , Rui-Min Shen and Peng Han	830
Heuristic Genetic Algorithm for Minimal Reduct in Decision System Based on Rough Set Theory Jian-Hua Dai and Yuan-Xiang Li	833
Robust Pole Placement Using Genetic Algorithms Jin Ouyang and Wei-Dong Qu	837
Adaptive Control in Heter-Raid System Fang Wang , Jiang-Ling Zhang , Dan Feng , Tao Wu and Ke Zhou	842
Social Conventions in Multi-Agent Systems Chang-Hong Li , Min-Qiang Li and Ji-Song Kou	846
Multi-Agent Based Distributed Chemical Process Monitoring and Diagnosis Jing-Gao Sun , Xin-Bin Yang and Dao Huang	851
Neural Network Based Online Self-Learning Adaptive PID Control for Automatic Ranging Cutting Height of Shearer Tie-Mei Yang and Shi-Bo Xiong	857
Autonomous Micro-Helicopter Control Based on Reinforcement Learning with Replacing Eligibility Traces Yu-Jun Yang , Jia-Pin Chen , Jun-Shi Cheng , Chen Zhang and Yong-Li Xiao	860
Medical Image Series Segmentation Using Watershed Transform and Active Contour Model Fu-Ping Zhu , Jie Tian , Xi-Ping Luo and Xing-Fei Ge	865
Memory-Based Social Agent's Actions And Mental States Design Model Kun Shao , Zong-Tian Liu and Zhi-Yong Sun	871
Fuzzy Tabu Search Method for the Clustering Problem Hong-Bing Xu , Hou-Jun Wang and Chun-Guang Li	876
A Hybrid Algorithm for the Assignment Problem Hong-Bing Xu , Hou-Jun Wang and Chun-Guang Li	881
Adaptive Speech Enhancement Based on Wavelet in High Noise Environment Yan Zhu , Xue-Yao Li and Ru-Bo Zhang	885
Weak Learning Algorithm for Multi-Label Multiclass Text Categorization Yan-Yong Xu , Xian-Zhong Zhou and Zhong-Wei Guo	890
CURE-NS: A Hierarchical Clustering Algorithm with New Shrinking Scheme Yun-Tao Qian , Qing-Song Shi and Qi Wang	895
Real-Time Learning Control Method and its Application to Ac-Servomotor Control Zhong-Ke Shi	900
Compression-Coded Genetic Algorithms and It's Application in Traffic Control Yan-Ke Shi and Zhong-Ke Shi	906
3-D Shape Measurement Based Computer Vision Wen-Ge Wang , Zhang-Yi Hu and Zong-Yu Shun	910
A Fast Algorithm of Mining Association Rules in Network Management Pei-Qi Liu , Zeng-Zhi Li , Yu-Xi Chen and Yin-Liang Zhao	915
A Hybrid Fuzzy Current Regulator for Three-Phase Voltage Source PWM-Inverter Guang-Da Chen , Wei-You Cai , Tian-Fu Cai and Hai-Feng Liu	919
Compound Fuzzy Neural Control with Application to Hydro-Turbine Governing System Wei-You Cai , Hai-Feng Liu , Guang-Da Chen , Pin-Mei Yie and Yu-Sheng Cao	924

Real-Time Topics Extraction and Visualization in Online Discussions	
Yao-Dong Li , Xiao-Ji Zhou , Xia Cui and Ru-Wei Dai	928
A Real-Time Vehicle Flow-Measuring Algorithm for Complex Urban Intersection in The Daytime	
Zhang Chuang , Zhang Zhi , Zhang Bin , Hao Shen , Wu Ming and Guo Jun	934
Adding the Webpage Quality Factors Into the Hyperlinks	
Yue Liu , Bin Wang and Guo-Jie Li	939
Improved Feature Selection Approach TFIDF in Text Mining	
Li-Ping Jing , Hou-Kuan Huang and Hong-Bo Shi	944
The Improvement of Genetic Algorithm Searching Performance	
Jin Cheng , Wei Chen , Li Chen and Yao Ma	947
The Test-Bed of Multi-Intelligent Control Algorithms Based on DSP	
Rong-Bao Chen , Min-Rui Fei , Hong-Hui Deng and Yun-Zhi Huang	952
Using Gasa to Solve Distributed Real-Time Scheduling Problems	
Wei Pu and Yi-Ren Zou	958
New Intelligent Decision Support Systems Based on Information Mining	
Xin-Zhong Chen , Yan Li and Bing-Ru Yang	962
Agile Bayesian Belief Networks and Application on Complex System Reliability Growth Analysis	
Hua-Wei Wang , Jing-Lun Zhou , Zu-Yu He and Ji-Chang Sha	968
Using Bayesian Belief Networks to Evaluate Credit Guarantee Risk	
Zu-Yu He , Yu-Qi Han , Hua-Wei Wang and Qiang Mei	973
Web Categorization Using Hybrid Algorithms	
Wei-Guo Ye and Zheng-Ding Lu	978
Robust Region Stabilities for Uncertain Singular Systems	
Dong-Wen Zhang , Qing-He Wu1 and Wen-Hui Wang	982
Research and Development in Web Usage Mining System—Key Issues and Proposed Solutions: a Survey	
Feng Zhang and Hui-You Chang	986
Document Segmentation Using Wavelet-Domain Multi-State Hidden Markov Models	
Jin-Ping Song , Xiao-Yi Yang , Yu-Hua Hou and Yuan Y. Tang	991
Adaptive Pbl Algorithm Based on Information Entropy and Its Application to Flow Shop Scheduling Problem	
Kun-Yuan Hu , Chun-Guang Chang , Bing-Lin Zheng and Ding-Wei Wang	995
Research on Automated Recognizing and Interpreting Architectural Drawings	
Xiao-Peng Xi , Wan-Chun Dou , Tong Lu and Shi-Jie Cai	1000
A Novel Adaptive Acoustic Echo Cancellation for Teleconference Systems	
Xiao Hu , Qiang Luo , Tian-You Cai and Ai-Qun Hu	1005
Edge Enhancement Using Fuzzy Reasoning Technique	
Qian Chen and Nan-Ning Zheng	1010
Distributed Simulation Algorithms of Generalized Differential Petri Nets	
Ya-Li Wu , Jian-chao Zeng and Guo-ji Sun	1013
RBR and Fuzzy Comprehensive Judgment Method Based Parts Locating Design Automation	
Guang-Feng Chen and Wen-Jian Liu	1018
Genetic Algorithm Based Dynamic Parameter Learning for Text Retrieval	
Chuan Lin , Shao-Ping Ma , Min Zhang and Yi-Jiang Jin	1024
Mining Constrained Cube Gradient Using Condensed Cube	
Yu-Bao Liu , Yu-Cai Feng and Jian-Lin Feng	1028
MAS Collaboration and Machine Learning Method for Robot Soccer	
Qian Hu , Ming-Rui Fei and Xia-Ei Feng	1034
Typeset Mathematical Expression Analysis	
Jian-Ming Jin , Zhi Han and Qing-Ren Wang	1038
Self-Learning Error Compensation in Cnc Grinding	
Xin-Cheng Tian , Bo Peng and Qing Xu	1044
Discrimination Between Printed and Handwritten Characters for Check OCR System	
Wei-Ran Xu , Hong-Gang Zhang , Jun Guo and Guang Chen	1048
Handwritten Legal Amounts Segmentation for Check Reader Based on Simple Bayesian Classifier	
Wei-Ran Xu , Wu-Gui Yu , Jun Guo and Wu Di	1054
Semantic Integration of XML Schema	
Yan-Feng Zhang and Wei-Yi Liu	1058
Research on Algorithm of Decision Tree Induction	
Hua Ding and Xiu-Kun Wang	1062
A New Method of Robust Detection for Speech Stream	
Xue-Yao Li , Li-Ran Shen , Xu Dong and Ru-Bo Zhang	1066
New Matrix Method for Analyzing Steel Making Process	
Hui-Min Gao , Jian-Chao Zeng , Guo-Ji Sun and Ya-Li Wu	1070

Product Hierarchy-Based Customer Profiles for Electronic Commerce Recommendation	
Li Niu, Xiao-Wei Yan, Cheng-Qi Zhang and Shi-Chao Zhang	1075
An Algorithm of Handwritten Digits Segmentation Based on Multi-Mould	
Hong-Gang Zhang, Gang Liu, Wei-Ran Xu and Jun Guo	1081
Using Learning Samples to Construct Fuzzy Logic Systems with the Application to Inverted Pendulum Control	
Zhi-Hao Xu, Dong-Ming Jin and Zhi-Jian Li	1085
A Novel Control Algorithm Based on Immune Feedback Principle	
Zhen-Qiang Qi, Guang-Da Hu, Zhao-Hua Yang and Fu-En Zhang	1089
Low State-Space Complexity and High Coverage Markov Browsing Forecast	
Dong-Shan Xing and Jun-Yi Shen	1093
Vision Based Algorithm for Automatic Recognition of Cutting Line of Clothes Label Tapes	
Mei Yu, Gang-Yi Jiang, Sai-Long He, Ming Yang and Bo-Kang Yu	1098
The Design of Efficient XML Document Model	
Jun Wen, Rui Zhang and Xianliang Lu	1102
New Approach to Vision-Based BGA Package Inspection	
Mei Yu, Gang-Yi Jiang, Sai-Long He, Bo-Kang Yu and Ran-Di Fu	1107
Rotor Position Angle Estimation and Speed Control in SRD Using Fuzzy Logic Based Motor Model	
Jiao-Min Liu, Yu-Long Cui, Xue-Ling Song and Xue-Chuan Hou	1111
Knowledge Increasable Neural Network Based on Self-Containing Neural Modules	
Hua Huang, Si-Wei Luo, Yun-Hui Liu and Yu-Hua Guo	1116
Application of Neural Network Method for Process Synthesis	
Wen-Jun Zhang, Jian-Lin Liang, Xiao-Feng Xie, Li-Lin Tian and Zhi-Lian Yang	1121
Content-Based Image Retrieval System with New Low-Level Features,	
New Similarity Metric, and Novel Feedback Learning	
Xue-Long Li	1126
Naked People Retrieval Based on Adaboost Learning	
Liang-Liang Cao, Xue-Long Li, Neng-Hai Yu and Zheng-Kai Liu	1133
A Novel Network Management Architecture Based on Corba and Intelligent Agent Technology	
Jin-Xiang Zhang, Jian-Ping Wu and Ji-Long Wang	1139
Research on Content-Based Chinese Word Retrieval	
Chen Lin and Lei Li	1144
Application of Rough Set Theory and Artificial Neural Network for Load Forecasting	
Qiu-Dan Li, Zhong-Xian Chi and Wen-Bing Shi	1148
Automatic Video Classification Using Decision Tree Method	
Ye Yuan, Qin-Bao Song and Jun-Yi Shen	1153
Feature Selection in Recognition of Handwritten Chinese Characters	
Li-Xin Zhang, Yan-Nan Zhao, Ze-Hong Yang and Jia-Xin Wang	1158
Classification of Dialogue Acts Using Prosodic Features in Chinese Spontaneous Speech	
Hui Sun, Ming-Xing Xu and Wen-Hu Wu	1163
Automatic Text Detection in Complex Color Image	
Jiang Wu, Shao-Lin Qu, Qing Zhuo and Wen-Yuan Wang	1167
A Genetic Algorithm for Optimizing the MPSOP a Processing-Assembly Production Line With Identical Machines	
Yi Wu, Min Liu and Cheng Wu	1172
A Fuzzy Logic with Similarity	
Jia-Bing Wang, Zheng-Quan Xu and Neng-Chao Wang	1178
Dynamic Multi-Agent Influence Diagrams for Modeling Multistage Games	
Zhong-Yu Zhang, Wei-Yu Liu and Wei-Hua Li	1184
Noise-Immune SVM Classifier With Uneven Class Sizes in Wastewater Treatment Process	
Xin-Wei Fan, Shu-Xin Du and Tie-Jun Wu	1189
A Frequency Spectrum Analysis Method for Eddycurrent Nondestructive Testing	
Xiao-Mei Pei, Hong-Sheng Liang and Yong-Ming Qiao	1194
Active Learning with Simplified SVMs for Spam Categorization	
Kun-Lun Li, Kai Li, Hou-Kuan Huang and Sheng-Feng Tian	1198
A Novel Multi-Class SVM Classifier Based on DDAG	
Kun-Lun Li, Hou-Kuan Huang and Sheng-Feng Tian	1203
A Social Cognition Model Applied to General Combinatorial Optimization Problem	
Yi-Xin Yu and Hong-Peng Zhang	1208
An Improving Mining Algorithm Aiming at a Kind of Specific Function of Degree of Interest	
Tian-Rui Li, Jun Ma and Yang Xu	1214
Data Modeling In Machine Learning Based on Information-Theoretic Measures	
Yun-Hui Liu, Ai-Jun Li and Si-Wei Luo	1219
Optimal Decision Rules Based on Inclusion Degree Theory	
Ju-Sheng Mi, Wen-Xiu Zhang and Wei-Zhi Wu	1223

A New Feature Extraction Method Based on Fourier Transform in Handwriting Digits Recognition	
Gang Liu , Di Wu , Hong-Gang Zhang and Jun Guo	1227
Learning Tree-Augmented Naive Bayesian Network by Reduced Space Requirements	
Hong-Bo Shi and Hou-Kuan Huang	1232
The Study of a New Multiagent-Based Genetic Algorithm	
Hong-Zhong Deng , Yue-Jin Tan and Ji Li	1237
Applying Data Mining to Detect Fraud Behavior in Customs Declaration	
Hua Shao , Hong Zhao and Gui-Ran Chang	1241
Real-Coded Genetic Algorithm for Signal Timings Optimization of a Single Intersection	
Xiao-Feng Chen and Zhong-Ke Shi	1245
Parameter Simulation in Performance Monitoring System of Steam Turbine Unit for a Fossil-Fuel Power Plant	
Guang-Lin Liu , Nian-Su Hu , Yu Zhao and Jun-Feng Wu	1249
Wavelet Based Palmprint Recognition	
Xiang-Qian Wu , Kuan-Quan Wang and David Zhang	1253
Approximate Reasoning Based on Granular Computing in Granular Logic	
Qing Liu and Qun Liu	1258
Robustness of Discrete Nonlinear Systems with Open-Closed-Loop Iterative Learning Control	
Dao-Ying Pi and K.Panaliappan	1263
SRFW: a Simple, Fast and Effective Text Classification Algorithm	
Zhi-Hong Deng , Shi-Wei Tang , Dong-Qing Yang , Ming Zhang , Xiao-Bin Wu and Meng Yang	1267
Identical Matrix Design of the Optimal Decoupling Control System with Kernel Methods	
Yong Quan and Jie Yang	1272
Research on Some Problems in the Kohonen Som Algorithm	
Ying He , Tian-Jin Feng , Jun-Kuo Cao , Xiang-Qian Ding and Ying-Hui Zhou	1279
Co-Evolutionary Agent Model for Adaptive Behavior	
Gang-Li Qin and Jia-Ben Yang	1283
An Approach to Machine Learning of Chinese Pinyin-To-Character Conversion for Small-Memory Application	
Bing-Quan Liu and Xiao-Long Wang	1287
An Approach for Fast Subsequence Matching Through KMP Algorithm in Time Series Databases	
Ai-Jun Li , Yun-Hui Liu , Ying-Jian Qi and Si-Wei Luo	1292
Fuzzy Inference Based Aggregation Method for Multiobjective Decision Making Problems	
Xin-Wang Liu	1296
Matchmaking Based on Task and Capability Description	
Long-Wen Zhao and Yi-Bin Hou	1301
A Study of the Intersection Unblocked Reliability Based on the Artificial Neural Network	
Yan-Yan Chen and Ai-Xia Gao	1306
The Design and Implementation of Personalized Learning Navigation System	
Hong-Ting Qu and Rui-Min Shen	1310
Lower Bounds Estimation to KL Transform in Face Representation and Recognition	
Bai-Bo Zhang and Chang-Shui Zhang	1314
A Security-Based Visual Information Retrieval Scheme	
Xue-Long Li	1319
Using Autonomous Agent to Make Recommendation in a Modeling Market	
Min Xu , Yu-Hui Qiu , Jing Qiu and Xiao-Fang Wang	1322
Early Cost Estimation of Strip-Steel Coller Using BP Neural Network	
Man-Yi Chen and Ding-Fang Chen	1326
A Rational Model of Cooperation Negotiation in Multi-Agent System	
Bang-Qing Li , Jian-Chao Zeng and Meng Wang	1332
Subsethood on Intuitionistic Fuzzy Sets	
Yu-Hai Liu and Feng-Lan Xiong	1336
Extraction of Face Regions in Color Image	
Zhi-Ming Liu , Yao Li , Wen-Ke Wang , Ji-Liu Zhou , Kui Li and Xin He	1340
A Novel Genetic Algorithm Based on Multi- Species	
Xin He , Zhi-Ming Liu , Wen-Ke Wang , Ji-Liu Zhou and Jie Li	1344
H∞ Robust Control of High Order System Based on Adaptive Low Order Model with Dead-Time	
Zhao-Quan Lu , Jiang-Hong Han and Yang Lu	1349
A Nonlinear Prediction Speech Coding Adpcm Algorithm Based on RNN	
An-Hong Wang , Xue-Ying Zhang , Zhi-Yi Sun and Bing-Zhi Ma	1353
An Incremental Outlier Factor Based Clustering Algorithm	
Yong-Feng Zhou , Qing-Bao Liu , Su Deng and Qiang Yang	1358
A Fast Algorithm for Mining Similar Trends in Trend-Sequence Databases	
Si-Yu Guo and Tie-Jun Wu	1362

TCPD Based Pulse Monitoring and Analyzing	
Kuan-Quan Wang , Li-Sheng Xu , David Zhang and Cheng Shi	1366
Study on Discretization Based on Rough Set Theory	
Jian-Hua Dai and Yuan-Xiang Li	1371
Several Symmetry Properties of Discrete Hopfield Neural Networks	
Ji-Yang Dong and Jun-Ying Zhang	1374
SVM-Based Incremental Active Learning for User Adaptationfor Online Graphics Recognition System	
Bin-Bin Peng , Zheng-Xing Sun and Xiao-Gan Xu	1379
A Multi-Paradigm Learning Model Based on Multi-Agent Technology	
Huai-Dong Chen and Xiao-Zhen Zhang	1387
Geometrical Partition of Edge Image: a New Approach for Image Structural Features Description	
Guo-Yu Wang and Xiao-Meng Jia	1391
The Study of Epistasis Based on the Random Walk Model in Fitness Landscapes of Schemata	
Jian-Wu Li and Min-Qiang Li	1396
A Fuzzy PID Controller for Multi-Model Plants	
Ning Wang	1401
A Novel Watermarking for Images Using Neural Networks	
Jun Zhang , Neng-Chao Wang and Feng Xiong	1405
Training MLP Via the Deterministic Annealing EM Algorithm	
Ying-Jian Qi , Si-Wei Luo , Jian-Yu Li and Hong Tu	1409
A DSS for Management on the Jointly Discharge of Overtopped Cofferdam	
De-Bin Fang and Xian-Jia Wang	1414
Adding Argument in Automated Negotiation System to Support Flexible Negotiation	
Ying Lei , Yu-Qiang Feng , Wei Qi and Yang Lu	1419
Simulation and Analysis of Chinese Economic Development Based on Neural Network	
Yu-Qiang Feng , Xue-Feng Wang , Ying Lei and Ying-Jun Feng	1423
Schema Theorem of Real-Coded Nonlinear Genetic Algorithm	
Zhi-Hua Cui and Jian-Chao Zeng	1429
Relative Term-Frequency Based Feature Selection for Text Categorization	
Stewart M. Yang , Xiao-Bin Wu , Zhi-Hong Deng , Ming Zhang and Dong-Qing Yang	1432
Passage Retrieval on Web Data	
Min Zhang , Rui-Hua Song and Shao-Ping Ma	1437
Principle and Design of Fuzzy Controller Based on Fuzzy Learning from Examples	
Yan Li , Ming-Hu Ha and Xi-Zhao Wang	1441
Chinese Part of Speech Tagging Based on Maximum Entropy Method	
Hong Lin and Chun-Fa Yuan	1447
A Short Note on Fuzzy Partition	
Jian Yu , Yong-Min Mu and Hong-Bo Shi	1451
SLMB SVMs: a Structural-Loss-Minimization-Based Support Vector Machines Approach	
Liang Zhang , Shui Yu , Yun-Ming Ye and Fan-Yuan Ma	1455
Combined Algorithm for Time-Varying System Based on Improved Genetic Algorithm and EWRLS Algorithm	
Ji-Xin Qian , Qi-Wen Yang and Yun-Can Xue	1460
Variant Fixture Design with CBR	
Guang-Feng Chen and Wen-Jian Liu	1465
Iris Verification Based on Fractional Fourier Transform	
Cheng-Fa Wang , David Zhang , Kuan-Quan Wang and Li Yu	1470
The Model Design of a Case-Based Reasoning Multilingual Natural Language Interface for Database	
Dong-Mo Zhang , Huan-Ye Sheng , Fang Li and Tian-Fang Yao	1474
A Detection Method for the Vehicle Flux Based on DSP and Computer Vision	
Ji-Hong Liu , Xin-He Xu and Qiang Xu	1479
Robust Control Based on Neuro-Fuzzy Systems for a Continuous Stirred Tank Reactor	
Jin-Shou Yu and Shi-Rong Liu	1483
Coordination Scheduling Based on Fuzzy Concepts	
Jian-Qiang Li and Yu-Shun Fan	1489
A New Equation of Saturation in RGB-to-His Conversion for More Rapidity of Computing	
David Zhang , Jian-Feng Li and Kaun-Quan Wang	1493
Two-Degree-of-Freedom PID Control with Fuzzy Logic Compensation	
Jing-Gang Zhang and Zhi-Yuan Liu	1498
Bayesian Theory and Artificial Neural Network Approach in Meg Inverse Problem	
Jie Hu and Sheng Ye	1502
Neural Dipole Localization by a Hybrid Nonlinear Optimization Algorithm	
Jie Hu and Sheng Ye	1505

A Method to Compute Truth-Value Propagation in Weighted Fuzzy Logic	
Jiu-Lun Fan	1507
A Game-Theoretic Learning Model in Multi-Agent Systems	
Chi Zhang , Xia Zhang , Jiao-Long Wei and Man-Li Zhou	1511
Research on the Modeling of the Axial Load Distribution Coefficient of Cylindrical Gears in Gear Cad Based on ANN	
Shu-Hua Wen	1517
Intelligent Determination of Cutting Conditions in CAPP Based on ANN	
Shu-Hua Wen and Xue-Liang Zhang	1520
Multi-Scale Reinforcement Learning with Fuzzy State	
Bo Yin , Han-Ping Wang , Qing-Chun Meng and Xiao-Dong Zhuang	1523
Improved Robust Minmax Estimation Algorithm with Moving Time Window	
Ji-Xin Qian , Qi-Wen Yang and Yun-Can Xue	1529
Gaussian-Basis-Function Neural Network Control System with Network-Induced Delays	
Li-Xiong Li , Min-Rui Fei and Tai-Cheng Yang	1533
Study on Fuzzy Direct Torque Control System	
Hui-Hui Xiao , Ming-Fu Zhao , Pei-Lin Wan and Shan Li	1537
Region-Mapping Neural Network Model for Pattern Recognition	
Yan-Lai Li , Kuan-Quan Wang and David Zhang	1541
A Target-Independent Solution to Mandarin Speech Recognition Engine of Dialogue System on Specified Domain	
Zheng-Zhong Lu , Min-Gxing Xu , Peng-Ju Yan , Jing Li , Wen-Hu Wu and Wen-Tao Zheng	1546
Variable Structure Neuron Control for Hydraulic Turbine Generators	
Cheng-Zhi Huang , Hai-Fei Liu and Ning Wang	1550
A Framework of AIS Based Pattern Classification and Matching for Engineering Creative Design	
Lei Wang , Ren-Bin Xiao and Yong Liu	1554
An Adaptive Nonlinear Genetic Algorithm for Numerical Optimization	
Jian-Chao Zeng and Zhi-Hua Cui	1559
The Axiom-System for Fuzzy Inequality Degree	
Fa-Chao Li , Ji-Qing Qiu and Shu-Xin Luo	1562
Fuzzy Optimization Problems Based on Inequality Degree	
Cheng Wu , Fa-Chao Li , Min Liu and Shu-Xin Luo	1566
Subtopic Segmentation of Chinese Document: an Adapted Dotplot Approach	
Bing-Quan Liu , Qing-Cai Chen , Xiao-Long Wang and Ying-Yu Wang	1571
A Consensus Learning Approach Based on Basic-Organization-Structure	
Chang-Ying Wang , Lei Chen , Wen-Wei Chen , Yao Li and Yong Gong	1577
Mind Evolutionary Computation for the Constrained Optimization	
Jian-Chao Zeng , Jing Jie and Su-Lan Zhang	1582
Ga-Based Object Recognition in a Complex Noisy Environment	
Jing Xin , Ding Liu , Han Liu and Yan-Xi Yang	1586
Simulated Human Memory: a New Intelligence Model	
Li Tan , Qing Zhuo and Wen-Yuan Wang	1590
Modeling and Identification of Ni-MH Battery Using Dynamic Neural Network	
Cheng-Hui Cai , Dong Du , Hua Zhang and Zhi-Yu Liu	1594
An Algorithm Using Predictive Control Theory for Automatic Drive	
Jie Liu and Hai Lan	1601
Learning Based Obstacle Detection with Uncalibrated Cameras	
Han-Gen He and Tao Wu	1605
I Semantic Extraction of the Building Images Using Support Vector Machines	
Yan-Ni Wang , Long-Bin Chen and Bao-Gang Hu	1608
Real-Time Animation of CAD-MF System Using Simplified Particle System and Fast Translation Algorithms	
Mu-Yuan Wang , Nai-Yao Zhang and Xin-Yu Du	1614
Artificial Neural Network in Estimation of Battery State-of-Charge (SOC)	
With Nonconventional Input Variables Selected by Correlation Analysis	
Cheng-Hui Cai , Dong-Du , Hua Zhang and Zhi-Yu Liu	1619
An Algorithm for Video Monitoring Under a Slow Moving Background	
David Dagan Feng , Jiang-Bin Zheng , Rong-Chun Zhao , Wan-Chi Siu and Yan-Ning Zhang	1626
The Application of Embedded Network Communication to Remote Fault Diagnosis System	
Kai Huang , Ming-Lun Fang , Ru-Zhong Yan and Yun Chen	1630
Incremental Learning Proximal Support Vector Machine Classifiers	
Hou-Kuan Huang and Kai Li	1635
2D Recovery of Human Posture	
En-Liang Wang , Jia-Sheng Hu , Mei-Hua Li and Yi Sun	1638
A Relevance Feedback Method in Image Retrieval by Analyzing Feedback Log File	
Xiang-Dong Zhou , Liang Zhang , Li Liu , Qi Zhang and Bai-Le Shi	1641

Hierarchical Fuzzy Control Schemes for Nonlinear Systems	
Ai Wu , Peter K. S. Tam , You-Ping Chen and Zu-De Zhou	1647
Neural-Network-Based Learning Control for the High-Speed Path Tracking of Unmanned Ground Vehicles	
Han-Gen He and Xin Xu	1652
Nonlinear Model Predictive Control Based on Support Vector Regression	
Qi Miao and Shi-Fu Wang	1657
Induction of BI-Branches Decision Tree with Fuzzy Number-Value Attribute	
Dong-Mei Huang , Ming-Hu Ha and Xi-Zhao Wang	1662
The Optimization Problem of the Fuzzy BI-Branches Decision Trees	
Dong-Mei Huang , Xi-Zhao Wang and Ming-Hu Ha	1667
The Model of Optimizing the Function of Reservoir Operation Based on Genetic Programming	
Xian-Jia Wang , Xiao-Xi Zhou and Zhong-Yun Zhu	1669
Wavelet Transform and Fractal Predict for Image Compression	
Hua Peng	1673
An Objective Decomposing Method Based on IBMDC for Solving Complex Production Scheduling Problem	
Min Liu , Ming-Yu Dong and Cheng Wu	1676
The Continuity of Mamdani Method	
Min Liu , De-Gang Chen and Cheng Wu	1680
A Genetic Learning Approach with Case-Based Memory for Job-Shop Scheduling Problems	
Wen-Jun Yin , Min Liu and Cheng Wu	1683
A Prediction Algorithm Based on Self-Organizing Fuzzy Neural Networks	
Min Liu , Ying-Chun Chai and Yun-Dong Gu	1688
A Universal Learning Controller for a Class of Nonlinear System	
Hua-Guan Zhang , Cheng-Xian Xie and Tie-Yan Zhang	1691
Research on Controlling Congestion in Wireless Mobile Internet Via Satellite	
Based on Multi-Information & Fuzzy Identification Technologies	
Qing-Hui Zeng , Jian-Ping Wu and Ji-Long Wang	1697
Neural Network Credit-Risk Evaluation Model Based on Back-Propagation Algorithm	
Jian-Min Xu , Rong-Zhou Li and Su-Lin Pang	1702
The Layout Recognition and Reconstruction of Chinese Documents Based on Gabor Filter	
Xue-Dong Tian and Bao-Lan Guo	1707
An Approach of Page Layout Analysis Based on Active Contour Model	
Dong-Rong Liu , Bao-Lan Guo and Xue-Dong Tian	1711
Individual Character Font Recognition Based on Guidance Font	
Xiu-Fen Miao , Xue-Dong Tian and Bao-Lan Guo	1715
Research on Chinese Character Recognition Post-Processing Based on Genetic Algorithm	
Ke-Jian Wang , Xue-Dong Tian and Bao-Lan Guo	1718
Chinese Document Layout Analysis Based on Texture Features	
Yu Wang , Xue-Dong Tian and Bao-Lan Guo	1722
An Improved Font Recognition Method Based on Texture Analysis	
Bao-Lan Guo , Fang Yang and Xue-Dong Tian	1723
A Study on Printed Form Processing and Reconstruction	
Zhi-Hong Zhao , Xue-Dong Tian and Bao-Lan Guo	1730
Correlation Based Generating Rules for Fuzzy Classification	
Da-Zhong Liu , Xi-Zhao Wang and John W.T. Lee	1733
The Design of Telediagnosis System Model Based on Mobile Agent	
Jun-Feng Tian	1737
Credit Scoring Model Based on Neural Network	
Su-Lin Pang , Yan-Ming Wang and Yuan-Huai Ba	1742
On Difficulties of Chinese-English Machine Translation	
Mei Tian , Pi-Lian He , Xiao-Shen Zheng , Yue-Heng Sun and Zhong Wang	1747
Hidden Neuron Pruning for Multilayer Perceptrons Using a Sensitivity Measure	
Daniel S. Yeung and Xiao-Qin Zeng	1751
On-Line Handwritten English Word Recognition Based on Cascade Connection of Character HMMs	
Jia-Feng Liu , Wei Zhao and Xiang-Long Tang	1758
A New Method for Edge Detection Based on Support Vector Classification	
Jing Lei and Xue-Qin Shen	1762
Identification of 3-D Texture Based on Wavelets	
Qing-Hu Chen	1765
Art Design Education in the Digital Age	
Ming-Jian Zhu and Wen-Kai Zhang	1768
Image Recognition Based on Evolutionary Algorithm	
Xin-Qing Yan , Wen-Feng Li and Ding-Fang Chen	1771

DFL Nonlinear Control Design and Its Application in Water-Level Nonlinear Plant	
Xiao-Yu Feng, Wen-Tao Chen and Kai-Sheng Lu	1774
Image Compression Based on Wavelet Transform and Vector Quantization	
Hong Wang, Ling Lu, Da-Shun Que and Xun Luo	1778
Stock Share Analysis Based on Gray System Relevance Theory	
Jun-Bin Huang, Jin Yin, Zu-De Zhou and Ding-Fang Chen	1781
Research on Parametric Feature Modeling Based on Knowledge	
Yan-Fang Yang and Ding-Fang Chen	1784
A New Method of Fuzzy Time-Varying Sliding Mode Control	
Zhi-Mei Chen, Jing-Gang Zhang, Zhi-Cheng Zhao and Jian-Chao Zeng	1789
Classify the Number of EEG Current Sources Using Support Vector Machines	
Wen-Yan Huang, Xue-Qin Shen and Qing Wu	1793
FICSEM: a Learning Method from One-Case Fitted in Complex Adaptive System	
Feng-Xian Wang, Jie Zhao, Sheng Chang, Ji-Min Li and Zhen-Peng Liu	1796
A New Algorithm of Selecting the Radial Basis Function Networks Center	
Hong-Rui Wang, Hong-Bin Wang, Li-Xin Wei and Ying Li	1801
A Run-Time Visibility Algorithm Based on Major Occluder	
Hong-Zhen Zheng and Hui Zhao	1805
A Study on forest Site Type Classification and Site Quality Evaluation Using Remote Sensing Techniques	
Xiao-Li Zhang and Xian-Xiang You	1810
The Multistage Support Vector Machine	
Hong-Jie Xing, Xi-Zhao Wang, Qiang He and Hong-Wei Yang	1815
Parametric Sensitivity in Building Fuzzy Decision Trees: an Experimental Analysis	
Xi-Zhao Wang, Ming-Hua Zhao and Daniel So Yeung	1819
A Decision Tree Based on Hierarchical Decomposition	
Xi-Zhao Wang, Hong-Wei Yang, Ming-Hua Zhao and Juan Sun	1824
Attribute Selection's Impact on Robust of Decision Trees	
Jin-Feng Wang, Xi-Zhao Wang and Ming-Hu Ha	1829
Verification of Supervised Clustering Validity and Its Applications	
Yan Zhan, Fang Yuan and Xi-Zhao Wang	1833
Mining the Weights of Similarity Measure Through Learning	
Li-Juan Wang, Xi-Zhao Wang, Ming-Hu Ha and Yin-Shan Gu	1837
Clustering Web Users Based on the Accessing Time and Web Site's Hierarchy	
Fang Yuan, Li-Juan Wang and Xi-Zhao Wang	1842
An Initial Comparison of Generalization-Capability between Crisp and Fuzzy Decision Trees	
Daniel So Yeung, Juan Sun and Xi-Zhao Wang	1846
An Agent-Based Intelligent System for Informatin Gathering from World Wide Web Environment	
Chun-Sheng Li, Cheng-Qi Zhang and Zi-Li Zhang	1852
Self-Splitting Competitive Learning for RBF Network and Speech Data Clustering	
Jun Liu and Zhi-Qiang Liu	1858
Workspace Adaptive Control of Flexible Robot Arms	
Zhao-Hui Jiang	1863
Skeletonization of Ribbon-Like Shapes with New Wavelet Function	
Xin-Ge You, Yuan Y. Tang and Lu Sun	1869
An Adaptive Neuro-Fuzzy Approach for System Modeling	
Chen-Sen Ouyang, Wan-Jui Lee and Shie-Jue Lee	1875
Repairing Errors for Chinese Word Segmentation and Part-of-Speech Tagging	
Tian-Fang Yao, Wei Ding and Gregor Erbach	1881
Immune Mechanism Based Computer Security Design	
Lei Wang and Béat Hirsbrunner	1887
Classification of Gait Patterns Combining their Spatial and Temporal Properties	
Q. He, C. Debrunner and J. J. Carollo	1894
On Learning Control Knowledge for a HTN-Pop Hybrid Planner	
Susana Fernández and Ricardo Aler Y Daniel Borrajo	1899
Biofeedback Control of Horseback Riding Simulator	
Gui-Lin Chen, Shuoyu Wang, Koichi Kawata, Yoichi Shinomiya, Takahisa Ozawa, Kenji Ishida, Tetsuhiko Kimura and Takeshi Tsuchiya	1905
The Accurate Extraction and Tracking of Moving Objects for Video Surveillance	
Jiang-Bin Zheng, David Dagan Feng, Wan-Chi Siu, Yan-Ning Zhang, Xiu-Ying Wang and Rong-Chun Zhao	1909
Locating Essential Facial Features Using Neural Visual Model	
Suphakant Phimoltaree, Chidchanok Lursinsap and Kosin Chamnongthai	1914

Discovery of Emerging Patterns from Nearest Neighbors	
Hiroya Inakoshi, Takahisa ando, Akira Sato and Seishi Okamoto	1920
A Novel Post-Classifer for Search Engine Using Hidden Markov Model	
Zhi-Wu Liao, Ernest C.M. Lam and Yuan Y. Tang	1926
A Novel Watermark Embedding Algorithm	
Zhao Zhuo and Yu Nenghai	1929
Achieving Self-Organization by Lateral Inhibition	
Bin Tang and Michael Shepherd	1935
An Experimental Study: on Reducing RBF Input Dimension by ICA and PCA	
Rong-Bo Huang, Lap-Tak Law and Yiu-Ming Cheung	1941
Coverage-Performance Curves for Classification In Datasets with Atypical Data	
Saeed Hashemi	1946
Locus Factor & Coding Scheme	
Hong-Qiang Mo, Jin-Bae Park and Young-Hoon Joo	1951
Agent-Based Transactional Framework for the Supply Chain	
R. Anane, M. Younas, C-F Tsai and K-M. Chao	1956
Distorted Pattern Fusion Using Wavelet Transform	
Ling Wang, Yuan Y. Tang and Xiang C. Feng	1962
Construction of Orthogonal Multiwavelet	
Jian-Wei Yang, Yuan-Y. Tang and Zheng-Xing Cheng	1968
A Wavelet-Based Method for Fingerprint Image Enhancement	
Wei-Peng Zhang, Qing-Ren. Wang and Yuan Y. Tang	1973
Genetic Algorithm Optimized Resource Activity Critical Path Method	
Peng-Yi Wang and Ming Lu	1978
CJK Knowledge Management In Multi-Agent M-Learning System	
Chi-Wing Lo, Kwun-Tak Ng and Qin Lu	1983
Image Retrieval Using Fuzzy Segmentation and a Graph Matching Technique	
Adel Hlaoui, Hao-Jun Sun and Sheng-Rui Wang	1987
A Fuzzy Clustering Based Algorithm for Feature Selection	
Hao-Jun Sun, Sheng-Rui Wang and Zhen Mei	1993
Learning Translation Models from the Web	
Jian-Yun Nie and Jiang Chen	1999
Study of Bifurcation in Current-Controlling DC/DC Converters	
Jun Zhang and Xue-Ye Wei	2005
Automatic Retinal Image Resgitation Based on Blood Vessels Feature Point	
Er-Hu Zhang, Yan Zhang and Tian-Xu Zhang	2010
The Data Mining of Time-Series of Flow Supply Chain Based on Time-Delayed Nuet	
Chen Peng, Dong Yue and Shi-Fan Xu	2016
A Study on Gray Neural Network Modelling	
Luo Zhong, Jing-Ling Yuan, Hong-Xia Xia and Cheng-Ming Zou	2021
The Lipschitz Property of A Subclass of B-Vex Functions	
Xian-Wei Yu, Zhi-Fu Wang and Liang-Kuan Zhu	2024
Fuzzy Pre-Extracting Method for Support Vector Machine	
Chun-Hong Zheng and Li-Cheng Jiao	2026
A Method and Algorithm of Distributed Mining Associationrules In Synchronisms	
Ji-Fu Zhang, Hong Shi and Lian Zheng	2031
Research on the Process with Closure after Mining in KDD	
Shao-Jun Huang, Yu-Zhen Liu and Tian-Liang Yang	2036
Feedforward Neural Networks Using Rprop Algorithm and its Application in System Identification	
Li-Hui Zhou, Pu Han, Song-Ming Jiao and Bi-Hua Lin	2041
The Rebuilding 3D of the Contact Surface of Electrical Apparatus	
Jiao-Min Liu, Hui Sun and Yu-Long Cui	2045
The Application of Decision Tree Induction of Lassification In Train Tickets System	
Yang-dong Ye, Jing Zhang, Jun-wei Gao and Lim-in Jia	2049
A Retrieval Model in Multiple Level Image Information	
Sheng-Rong Gong, Zhao-Hui Wang and Zhi-An Yi	2055
Experimental Verification for Zero Power Control of 0.5kwh Class Flywheel System	
Using Magnetic Bearing with Gyroscopic Effect	
Ya-Chong Zhang, Guo-Ji Sun and Ya-Jun Zhang	2059
An Optimal Point In Scheduling Real-Time Tasks Process Based on Fault Tolerant Imprecise Computation Model	
Li Ji and Chun-Hua Yang	2063
DCA-Tree: a High Performance Structure for Incremental Update Cube on MDDW	
Kong-Fa Hu, Yi-Sheng Dong and Li-Zhen Xu	2069

A Neural Network Approach for 3-D Face Shape Reconstruction	
You-Wei Yuan and La-Mei Yan	2073
A Research on Graph-Based Model of MAS	
Hong-Bing Zhang, Jie-Yu Zhao and Xue-Shan Luo	2077
Integrating Color and Spatial Information for Content-Based Image Retrieval Inlarge Image Database	
Qin-Bao Song, Xiang-Rong Yang, Jun-Yi Shen and Li-Ming Chen	2082
Workspace Generation of the 3-PRS Parallel Robot Based on the NN	
Xiang Cheng, Y.M. Huang, Z.M. Fan and J.H. Su	2087
Image Retrieval Using Object Template	
Li-Qun Zhang, Zheng-Xing Sun, Bin-Bin Peng and Hui-Feng Wang	2090
Triseme Decision Trees in the Continuous Speech Recognition System for a Talking Head	
Dong-Mei Jiang, Lei Xie, Ilse Ravyse, Rong-Chun Zhao, Hichem Sahli and Jan Cornelis	2097
The Pattern Recognition of Log Facies Using Walsh Transform	
Cheng Yang and Xue-Yao Li	2102
Oscillation Suppression for a Class of Flexible System with Input Shaping Technique	
Jing Mao, Ke-Ping Liu and Yuan-Chun Li	2108
A Decoupling Control Method with Improving Genetic Algorithm	
Yuan-Bin Hou	2112
Chaos Optimization Variable Arguments Pid Controller and Its Application to Main Steam Pressure Regulating System	
Dong-Feng Wang, Pu Han and Qing Ren	2116
Modeling the Circulating Fluidized Bed Boiler Using Rbf-Nn Based on Immune Genetic Algorithm	
Dong-Feng Wang, Pu Han, Na Liu, Ze Dong and Song-Ming Jiao	2121
Multi-Model Adaptive Predictive Fuctional Control and its Application	
Dong-Feng Wang, Pu Han, Guo-Yu Wang and Hui-Ming Lu	2126
Optimal for Ball Mill Pulverizing System and its Applications	
Dong-Feng Wang, Pu Han and Dao-Gang Peng	2131
Power Quality Disturbance Classification Based on Rule-Based and Wavelet-Multi-Resolution Decomposition	
Gang Zheng, Mei-Xiang Shi, Ding Liu, Jian Yao and Zhu-Mei Miao	2137
A Directly Regressive Predictive and Adaptive Control of Time-Varying Delay System	
Based on Time Delay Identification	
Wei Gao, Tao Zhang and Yuan-Chun Li	2142
Self-Modifying Reinforcement Learning	
Jie-Yu Zhao	2146
Kernel-Based Similarity Learning	
Long-Bin Chen, Yan-Ni Wang and Bao-Gang Hu	2152
The Subsystem of the Fuzzed Rough Sets Based on Equivalence Class	
Jun Zhou and De-Gang Chen	2157
A Nonlinear Combining forecast Method Based on Fuzzy Neural Network	
Ying-Rong Dong	2160
The Design and Analysis on a New Type of Fuzzy Controller	
Chao-Ying Liu and Xue-Ling Song	2165
A Self-Adjusting and Probabilistic Decision-Making Classifier	
Based on the Constructive Covering Algorithm in Neural Networks	
Yan-Ping Zhang, Tao Wu and Ling Zhang	2171
Variale Precision Rough Set Model Based Dataset Partition and Association Rule Mining	
Quan-De Wang, Xian-Jia Wang and Xian-Pei Wang	2175
Model-Free Control Based on Neural Networks	
Zhong Zheng and Ning Wang	2180
Research & Implementation of Distributed Msp Algorithm Based on GA & MAS	
Wei-Jin Jiang, Yu-Hui Xu and Yao Li	2184
The Relation between Dither Matrix and a Pair of Orthogonal Generalized Latin Squares	
Xue-Gang Li, Yan-Bo Qi and Xiu-Hua Guan	2190
A Neural Network Expert System for Chinese Handwriting-Based Writer Identification	
Zhen-Yu He, Qing-Hu Chen and Ding-Fang Chen	2194
A Fast Edge Detection Method Based on the Correlation of Moving Images and Its Applcation	
Da-Shun Que, Ling Lu, Hong Wang and Xiao-Dong Song	2197
The Theory and Method of Symbolic Time Series	
Bi-Qiong Li, Ding-Fang Chen, Yu Zhang and Yue-Lin Li	2201
OLAP Realization Technology Research Based on MDX	
Wen-Yuan Liu and Shu-Fen Fang	2205
Emotion Recognition of Speech Based on RNN	
Chang-Hyun Park, Dong-Wook Lee and Kwee-Bo Sim	2210

Input Dimensionality Reduction for Radial Basis Neural Network Classification Problems Using Sensitivity Measure Wing W. Y. Ng and Daniel S. Yeung	2214
Induction of Ordinal Decision Tree John W.T. Lee and Da-Zhong Liu	2220
Comparative Study on Various Pruning Algorithms for RNN I : Complexity Analysis John Sum	2225
Comparative Study on Various Pruning Algorithms for RNN II : Experimental Results and Comparative Study Analysis John Sum and Jung-Seng Tjiang	2231
The Improvement of a Fuzzy Neural Network Based on Back-Propagation Qiang Hua and Ming-Hu Ha	2237
Energy Function Criterion for Discrete Hopfield-Type Neural Network with Delay Shen-Shan Qiu, Eric C.C. Tsang, Daniel S. Yeung and Xi-Zhao Wang	2240
Matrix Criterion for Dynamic Analysis in Discrete Neural Networks with Multiple Delays Eric C.C. Tsang, Shen-Shan Qiu and Daniel S. Yeung	2245
Distant Bi-Gram Model, Collocation, and their Applications in Post-Processing for Chinese Character Recognition Rui-Feng Xu, Qin Lu, Daniel S. Yeung and Xi-Zhao Wang	2251